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Message Text

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ACTION OES-09

INFO OCT-01 EUR-12 ISO-00 EPA-01 SOE-02 AID-05 CEA-01
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DOE FOR BORRE, ALBERT, ROBERTSON, VANDERRYN, IA; DIVONE, ST

EO 11652: NA
TAGS: TECH, ENRG, IT
SUBJ: U.S.-ITALY ENERGY COOPERATION: WIND

1. WIND ENERGY SYSTEMS HAVE BARELY BEEN DISCUSSED IN THIS BI-LATERAL CONTEXT, LARGELY BECAUSE MINISTRY OF INDUSTRY PERCEIVES LITTLE USE FOR THEM OUTSIDE OF SARDINIA AND ONE OR TWO OTHER AREAS IN ITALY. THE MISSION, HOWEVER, HAS TRIED TO ENCOURAGE ITALIAN INTEREST IN BILATERAL COOPERATION, PARTLY AS A RESULT OF OUR GENERAL DESIRE FOR A BETTER IMAGE IN SARDINIA, WHERE THE USG HAS A MAJOR NUCLEAR SUBMARINE FACILITY.

2. WE HAVE NOW RECEIVED DIRECTLY FROM FIAT A PAPER ON FIAT AND ENEL (NATIONAL ELECTIRCAL UTILITY) INTERESTS IN WIND TECHNOLOGY. FIAT AND ENEL JOINTLY RUN THE ONLY SUBSTANTIAL WIND PROJECT IN ITALY. ALTHOUGH THIS PAPER WAS NOT GIVEN TO US OFFICIALLY BY GOI, WE WOULD ENCOURAGE DOE TO DISCUSS INFORMALLY POSSIBLE COOPERATIVE EFFORTS IN THIS AREA DURING THE ITALIAN SOLAR EXPERT VISIT, SEPTEMBER 6-17. ONE PERSON TO TALK TO IS PETRUCIOLLI, A MEMBER OF THE ITALIAN GROUP WHO IS A FIAT ENGINEER AND HAS
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WORKED ON THE ITALIAN WIND PROJECT.

2. THERE FOLLOWS THE FULL TEXT OF THE FIAT/ENEL PAPER, WHICH IS ENTITLED AS QTE UTILIZATION FOR WIND ENERGY FOR THE PRODUCTION OF ELECTRICITY UNQTE:
QTE. MEMORANDUM FOR THE MEETING WITH USDOE EXPERTS.
A. SUBJECTS OF INTEREST TO ENEL AND FIAT.

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1. STUDY OF WIND FOR THE IDENTIFICATION OF ECONOMICALLY USABLE AREAS (GATHERING DATA ON WIND, INSTRUMENTS USED, DURATION OF THE SURVEYS, CRITERIA FOR DATA PROCESSING, PROBABILISTIC MODELS, EXTRACTABLE ENERGY): OF INTEREST PRIMARILY TO ENEL.
2. STUDIES FOR THE REDUCTION OF ENVIRONMENTAL IMPACTS. (LAND-USE RESTIRCTIONS IN THE U.S., DESIGN OF THE SUPPORTS, NOISE LEVELS, SAFETY ZONES, POSSIBLE USE OF LOWLANDS, DISTURBANCES TO THE NATURAL ENVIRONMENT, POSSIBLE INTERFERENCE WITH RADIO AND TELEVISION RECEPTION FROM REFLECTION OF ELECTRO-MAGNETIC WAVES): OF INTEREST PRIMARILY TO ENEL.
3. STUDIES OF MATERIALS. (MATERIALS FOR BLADES AND COMPONENTS, SERVICING, LEFETIME IN SPECIFIC SERVICE CONDITION): OF INTEREST PRIMARILY TO FIAT.
4. STUDIES FOR OPTIMIZATION OF DESIGN (AERODYNAMIC PROFILE OF THE BLADES, DIMENSIONS, TYPES OF GENERATORS, MECHANICAL AND ELECTRICAL CONTROL, VIBRATION, MODELLING): PRIMARILY OF INTEREST TO FIAT.
5. TECHNICAL SPECIFICATIONS FOR THE ACQUISTION OF WIND GENERATORS (TESTING): PRIMARILY OF INTEREST TO ENEL.
6. USE OF SMALL WIND GENERATORS FOR ISOLATED USES (AMERICAN PHILOSOPHY): PRIMARILY OF INTEREST TO ENEL.
7. COSTS OF INSTALLATION AND OPERATION OF EXPERIMENTAL GENERATORS: PRIMARILY OF INTEREST TO ENEL.
8. DESIGN OF WIND SYSTEMS OF SEVERAL TEMS OF MEGAWATTS (AREA USED, TYPES OF GENERATORS AND THEIR OPTIMAL SIZE, OPTIMAL SPACING, PROBLEMS OF CONTROL): PRIMARILY OF INTEREST
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TO ENEL.
B. SUBJECTS ON WHICH ENEL AND FIAT COULD PROVIDE INFORMATION TO THE USA:
1. PROTECTION OF HIGH TOWERS FROM LIGHTENING (THE EXPERIENCE OF ENEL, ACQUIRED IN PROTECTING THE REPEATING TOWERS FOR ITALIAN TELEVISION).
2. DESIGN OF METAL STRUCTURES (ENEL EXPERIENCE ACQUIRED IN THE DESIGN OF SUPPORTS FOR ULTRA HIGH VOLTAGE LINES, AVAIL-ABLE COMPUTER PROGRAMS).
3. ELECTRICAL AND MECHANICAL CONTROL (ENEL EXPERIENCE WITH SERVOMECHANISMS AND PROBLEMS OF ELECTRICAL AND MECHANICAL CONTROL)
4. TECHNICAL ASPECTS OF DESIGNING AND CONSTRUCTING WIND GENERATORS (FIAT EXPERIENCE).
5. PROCESSING OF WIND DATA (ENEL AND FIAT EXPERIENCE).
C. POSSIBLE FORMS OF COLLABRATION WITH THE USA.
1. EXCHANGE OF INFORMATION (VISITS TO EXPERIMENTAL INSTALLATIONS, EXCHANGE OF REPORTS ON SPECIFIC PROBLEMS, PERIODIC MEETINGS).
2. EXCHANGE OF SCIENTISTS (FOR SEVERAL WEEKS).
3. EXCHANGE OF GENERATORS OR COMPONENTS TO BE TESTED IN EXPERIMENTAL INSTALLATIONS.
4. COMMON RESEARCH PROGRAMS.GARDNER

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